

ABSTRACT OF THE DISCLOSURE

The present invention provides a low-cost optical transmission system using a plurality of subscriber lines which is capable of efficiently utilizing an optical transmission path. A communication status observing section 116 in a transmitting device 1 classifies subscribers into a plurality of groups based on a communication status at each subscriber end, and outputs constellation level information and level information which are different for each group. For each constant cycle, a modulation control section 117 and a gain control section 118 respectively set a QAM constellation level and a signal level which are different for each group and used in a basic modulating section 103.